

F-6906

Ser. No. 09/812,249

A/ stops operation of the component mounting apparatus upon detecting a malfunction in any one of said at least one motor driver, reports the malfunction through the display, and drives the rotary table to move the malfunctioning motor driver to a predetermined maintenance position.--

REMARKS

Claims 1-11 are pending in the present application. Claims 6-11 are added to obtain a broader scope of protection. Entry of these claims is respectfully requested.

For the convenience of the Examiner, APPENDIX I is provided herewith having a complete set of pending claims.

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In light of the foregoing, the application is now believed to be in proper form for allowance of all claims and notice to that effect is earnestly solicited. Please charge any deficiency or credit any overpayment to Deposit Account No. 10-1250.

Respectfully submitted,
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APPENDIX I

ALL PENDING CLAIMS WITH AMENDMENTS EFFECTED THEREIN

1. A component mounting apparatus comprising:

a rotary table driven to rotate intermittently;

a plurality of mounting heads disposed on a peripheral surface of the rotary table;

a plurality of motors respectively provided in each of the plurality of mounting heads;

an annular driver having an axis of rotation coaxial with the rotary table including a plurality of ⁴motor drivers respectively connected to each of the plurality of motors; and

a controller placed in a stationary part of the apparatus for inputting drive power and control signals to the annular driver.

○ 2. The component mounting apparatus according to Claim 1, wherein the annular driver includes a plurality of motor driver mounting plates for attaching the motor drivers²⁴, arranged in parallel to the axis of rotation of the annular driver and spaced apart from each other.

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3. The component mounting apparatus according to Claim 1, wherein the annular driver includes a plurality of motor driver mounting plates for attaching the motor drivers, arranged radially with respect to the axis of rotation of the annular driver.

4. The component mounting apparatus according to Claim 3, wherein each of the plurality of motor driver mounting plates includes a notch at an inner peripheral side edge thereof and a fastening member at an outer peripheral side edge thereof.

5. The component mounting apparatus according to Claim 2, further comprising a display connected to the controller, wherein the controller stops operation of the component mounting apparatus upon detecting a malfunction in any one of the plurality of motor drivers, reports the malfunction through the display, and drives the rotary table to cause the malfunctioning motor driver to a predetermined maintenance position.

6. (Newly Added) A component mounting apparatus comprising:
a rotary table driven to rotate;

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at least one mounting head disposed on a peripheral surface of the rotary table;

at least one motor respectively provided in said at least one mounting head;

an annular driver, having an axis of rotation coaxial with the rotary table, including at least one motor driver respectively connected to said at least one motor; and

a controller for inputting drive power and control signals to the annular driver.

✓ 7. (Newly Added) The component mounting apparatus according to Claim 6, wherein the annular driver includes at least one motor driver mounting plate for attaching the at least one motor driver, said at least one motor driver mounting plate being arranged in parallel to the axis of rotation of the annular driver.

○ 8. (Newly Added) The component mounting apparatus according to Claim 7, wherein the at least one motor driver mounting plate includes at least one notch at an inner peripheral side edge thereof for receiving a locator pin engaged with a plate of said annular driver, and a fastening member at an outer peripheral side edge of the at least one motor driver mounting plate for mounting the at least one motor driver mounting plate.

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✓ 9. (Newly Added) The component mounting apparatus according to Claim 6, wherein the annular driver includes at least one motor driver mounting plate for attaching the at least one motor driver, said at least one motor driver mounting plate being arranged to extend radially with respect to the axis of rotation of the annular driver.

○ 10. (Newly Added) The component mounting apparatus according to Claim 9, wherein the at least one motor driver mounting plate includes at least one notch at an inner peripheral side edge thereof for receiving a locator pin engaged with a plate of said annular driver, and a fastening member at an outer peripheral side edge of the at least one motor driver mounting plate for mounting the at least one motor driver mounting plate.

✓ 11. (Newly Added) The component mounting apparatus according to Claim 6, further comprising a display connected to the controller, wherein the controller stops operation of the component mounting apparatus upon detecting a malfunction in any one of said at least one motor driver, reports the malfunction through the display, and drives the rotary table to move the malfunctioning motor driver to a predetermined maintenance position.

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